



Course Specification

(Postgraduate)

Course Title: Research Project II

Course Code: BIOD598

Program: Master's in Biodiversity

Department: Department of Biology

College: Faculty of Science

Institution: University of Tabuk

Version: 2

Last Revision Date: 18/11/1444 H

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A. General information about the course:

1. Course Identification:

1. Credit hours: 3 Credit Hours						
2. C	2. Course type					
A.	□University	□College	⊠ Depa	rtment	□Track	
B.	B. ⊠ Required □Elective					
3. Level/year at which this course is offered: (Level 4/ Second year)						

4. Course General Description:

The student will learn how to design research, collect literature and data, interpretation of research findings, write research, preparation of the dissertation, and present research on different topics of biodiversity. They will be skilled in independent thinking skills, sample and data collection, and field training based on the modern techniques of biodiversity assessment and conservation.

The main steps for the completion of the research project are:

- **1.** Weekly meetings with the supervisor: The student and her/his supervisor should schedule a meeting time, preferably once per week.
- 2. Data Collection: During the first and second semesters of the second year of the study, students should conduct a field and/or a lab to collect, analyze, and interpret their results.
- **3.** Writing up the Research Dissertation: By the end of the academic year, each student has to submit three copies to the course coordinator by the required date before the final defense.
- **4. Project Presentation and defense:** By the required date students should present her/his work as part of a seminar, present themselves for the defense in front of a committee, and be able to answer questions asked by the committee members.

5. Pre-requirements for this course (if any):

- Research Project I (BIOD525).

6. Pre-requirements for this course (if any):

- None.

7. Course Main Objective(s):

- To develop an appropriate level of knowledge, and skills in documentation, analyses, presentation, and interpretation of results, and writing scientific reports.
- To provide students with the needed skills to conduct a guided, independent research study on a specific topic in the field of biodiversity.
- To train students through research and problem-solving skills, literature searching, and presentation skills in the current field of biodiversity.

2. Teaching Mode: (mark all that apply)

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No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	90	100%
2	E-learning		
	Hybrid		
3	 Traditional classroom 		
	E-learning		
4	Distance learning		

3. Contact Hours: (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	
5.	Others (specify) Supervisor meeting (Follow-up/monitoring) + Coursework (Laboratory and/or field work + writing up the dissertation, etc)	90
	Total	90

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods:

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understand	ling		
1.1	Recognize the recent, advancements and currently active research areas in biodiversity.	К2	Coursework.Seminars.Ethical research practices sessions.	Evaluation of the Coursework.Defense.
•••				
2.0	Skills			
2.1	Apply advanced concepts, theories, and methods to carry out scientific research in a specified area of biodiversity.	S1	Coursework.Seminars.Regular feedback sessions.Presentations.	Coursework.Defense.Evaluation of the dissertation.
2.2	Analyze the research		- Coursework.	- Coursework.



problem and its results using modern tools and methods to the problem in the field of biodiversity. Defend research findings in biodiversity by critically evaluating data, justifying 2.3 methodologies, and providing evidence-based conclusions to address conservation challenges. Investigate biodiversity challenges by applying research methodologies, analyzing data, and synthesizing information to develop evidence- based solutions. Communicate effectively the complex concepts, and research findings related to biodiverse audiences using written and oral presentations. m. 3.0 Values, autonomy, and responsibility Perform the research study independently, without bias following the utmost ethical standards. aligned with program Feaching Strategies Methods Feaching Strategies Methods Feaching Strategies Methods Feaching Strategies Methods Feaching Strategies Peaduatr Coursework. Seminars. Coursework. Coursework. Seminars. Coursework. Seminars. Coursework. Seminars. Coursework. Coursework. Seminars. Coursework. Coursework. Seminars. Coursework. Seminars. Coursework. Seminars. Coursework. Seminars. Coursework. Seminars. Coursework. Seminars. Coursework. Coursework. Seminars. Coursework. Seminars.					
using modern tools and methods to the problem in the field of biodiversity. Defend research findings in biodiversity by critically evaluating data, justifying evaluating data, justifying evaluating data, justifying evaluating evidence-based conclusions to address conservation challenges. Investigate biodiversity challenges by applying research methodologies, and synthesizing information to develop evidence-based solutions. Communicate effectively the complex concepts, and research findings related to biodiversity and conservation to diverse audiences using written and oral presentations. 1. Values, autonomy, and responsibility Perform the research study independently, without bias following the utmost ethical standards. - Regular feedback sessions Presentations. - Coursework Seminars Regular feedback sessions Presentations. - Coursework Seminars Coursework Seminars Coursework Seminars Regular feedback sessions Presentations. - Coursework Seminars Coursework Seminars Presentations Coursework Seminars Presentations Coursework Seminars Coursework Seminars Coursework Seminars Presentations Coursework Defense Coursework Defense.	Code	_	aligned with	Teaching Strategies	Assessment Methods
in biodiversity by critically evaluating data, justifying S3 - Seminars Defense. 2.3 methodologies, and providing evidence-based conclusions to address conservation challenges. Investigate biodiversity challenges by applying research methodologies, analyzing data, and synthesizing information to develop evidence-based solutions. Communicate effectively the complex concepts, and research findings related to biodiversity and conservation to diverse audiences using written and oral presentations. 2.5 Values, autonomy, and responsibility Perform the research study independently, without bias following the utmost ethical standards. - Coursework Coursework Defense. Evaluation of dissertation. - Coursework Coursework Coursework Seminars Defense Evaluation of dissertation. - Coursework Coursework Seminars Defense Evaluation of dissertation. - Coursework Coursework Defense Evaluation of dissertation.		using modern tools and methods to the problem in the field of biodiversity.	S2	- Regular feedback sessions.	- Evaluation of the
challenges by applying research methodologies, analyzing data, and synthesizing information to develop evidence-based solutions. Communicate effectively the complex concepts, and research findings related to biodiversity and conservation to diverse audiences using written and oral presentations. Communicate effectively the research study independently, without bias following the utmost ethical standards. - Coursework Regular feedback sessions Coursework Defense Evaluation of dissertation. - Coursework Coursework Defense Evaluation of Dissertation. - Coursework Coursework Defense Evaluation of Dissertation.	2.3	in biodiversity by critically evaluating data, justifying methodologies, and providing evidence-based conclusions to address	\$3	Seminars.Regular feedback sessions.	Defense.Evaluation of the
the complex concepts, and research findings related to biodiversity and conservation to diverse audiences using written and oral presentations. - Coursework Seminars Regular feedback sessions Presentations. - Presentations. - Coursework Defense Evaluation of Dissertation. - Presentations. - Coursework Ethical research practices sessions Coursework Defense Coursework Defense Coursework Defense.	2.4	challenges by applying research methodologies, analyzing data, and synthesizing information to develop evidence-	S4	Seminars.Regular feedback sessions.	Defense.Evaluation of the
3.0 Values, autonomy, and responsibility Perform the research study independently, without bias following the utmost ethical standards. - Coursework Ethical research practices sessions Coursework Defense.	2.5	the complex concepts, and research findings related to biodiversity and conservation to diverse audiences using written	S 5	Seminars.Regular feedback sessions.	Defense.Evaluation of the
Perform the research study independently, without bias following the utmost ethical standards. - Coursework Ethical research practices sessions. - Coursework Defense.					
study independently, without bias following the utmost ethical standards. V1 - Ethical research practices sessions Coursework Defense.	3.0	Values, autonomy, and resp	oonsibility		
Demonstrate high	3.1	study independently, without bias following the	V1	- Ethical research	
personal effectiveness and responsibility during work individually or in group research. - Coursework Ethical research practices sessions Coursework Defense.	3.2	and responsibility during work individually or in	V2	- Ethical research	



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods

C. Course Content:

No	List of Topics	Contact Hours
1.	Filed and/or lab work; Data collection.	3
2.	Filed and/or lab work; Data collection.	3
3	Filed and/or lab work; Data collection.	3
4	Filed and/or lab work; Data collection and data analysis.	3
5	Filed and/or lab work; Data collection and data analysis.	3
6	Filed and/or lab work; Data collection and data analysis.	3
7	Filed and/or lab work; Data collection and data analysis.	3
8	Filed and/or lab work; Data collection and data analysis.	3
9	Filed and/or lab work; Data collection and data analysis.	3
10	Writing the research work; introductions to research work, reviewing the literature, and discussing the summed-up data.	3
11	Writing the research work; introductions to research work, reviewing the literature, and discussing the summed-up data.	3
12	Writing the research work; introductions to research work, reviewing the literature, and discussing the summed-up data.	3
13	Writing the research work and revising it to put it in its final form.	3
14	Writing the research work and revising it to put it in its final form.	3
15	Writing the research work and revising it to put it in its final form.	3
	Total	90

NB: the contact hours presented here for the two semesters.

D. Students Assessment Activities:

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Coursework (Field and laboratory work reports, draft submissions, progress reports, reviewing the literature, etc) (by supervisor).		60
2.	Defense (Oral presentation, poster presentation, and discussion) (by examination committee; 2 different Referees).	17	10
3.	Evaluation of the Dissertation (by examination	17	

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No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
	committee; 2 different Referees).		30
•••	Total		100

^{*}Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities:

1. References and Learning Resources:

Essential References	 Roberts, C. and Hyatt, L. (2019). The Dissertation Journey: A Practical and Comprehensive Guide to Planning, Writing, and Defending Your Dissertation, 3rd edition, SAGE Publications Ltd. ISBN 9781506373317. Bailey, S. (2011). Academic Writing a Handbook of International
Supportive References	 Students's 3rd edition. ISBN 0-203-83165-9; Master e-book ISBN Jaan, M. (2000). Textbook Research and Writing, Frankfurt am Main: Peter Lang.
Electronic Materials	Saudi digital library.Journal of Biodiversity.UNESDOC Digital Library.
Other Learning Materials	- None.

2. Educational and Research Facilities and Equipment Required:

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	 A sufficient number of classrooms, well well-equipped practical laboratories are available to accommodate up to 25 students. Library.
Technology equipment (Projector, smart board, software)	 Data show projectors and a wireless internet connection are available for students and faculties. Data show projectors and wireless internet connections available for students and faculties. Smart blackboard. Computer Portable PowerPoint presentations.
Other equipment (Depending on the nature of the specialty)	- None.

F. Assessment of Course Quality:

Assessment Areas/Issues	Assessor	Assessment Methods



Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students.Faculty members.	- Direct & indirect.
Effectiveness of students assessment	 Course instructors & Course coordinator (Teachers). 	- Direct.
Quality of learning resources	- Students.	- Indirect.
The extent to which CLOs have been achieved	Course instructors.Course coordinator.Quality Committee.	- Direct & indirect.
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

G. Specification Approval Data:

COUNCIL /COMMITTEE	DEPARTMENT OF BIOLOGY COUNCIL
REFERENCE NO.	DEPARTMENT COUNCIL NO (26)
DATE	26/11/1444 H